

S & S ENVIRONMENTAL SCIENCES, INC.

Environmental Engineering, Testing and Consultation

98 Sand Park Rad, Cedar Grove, NJ 07009

Tel (973) 857-7188 Fax (973) 239-8380

NJDEP Lab Certification No. 07073

SAMPLE CHAIN OF CUSTODY

CLIENT	Waterside Construction	SSES PROJECT NO.	
ADDRESS	1000 Partside Drive	TEL. NO.	201 840 0050
	Edgewater NJ 07020	FAX NO.	201 840 8812
PROJECT	Alcoa Edgewater NJ 07020	PROJECT LAB ID NO.	13-152

SAMPLE NUMBER	SAMPLING DATE	SAMPLING TIME	SAMPLE TYPE	NO. OF BOTTLES	ANALYSES REQUESTED
1	9/19/13	11:30 AM	RCA	1	PCBs, PAHs, Petroleum HCs...
2	9/19/13	11:38 AM	RCA	1	" " "
3	9/19/13	11:40 AM	Soil	1	" " "

Comments:

Field Measurements:

pH=

Temp.=

Flow Rate=

Sample Preservation:

Cooled at 4° C ☒

H₂SO₄

NaOH

HNO₃

HCl

Sodium
Thiosulfate

Other

Sampled By: VM

RELINQUISHED BY:

Vincent Monte

RECEIVED BY:

[Signature]

DATE AND TIME:

9/19/13 2:15 PM

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This report is the confidential property of the Client, and information contained may not be published or reproduced without our written permission.

Client:	Waterside Construction, LLC				
Project:	Alcoa, Edgewater, New Jersey				
Subject:	Laboratory Analysis of Soil and RCA samples				
Job No.:	13-E-29	Report Number:	13-E-255	Date:	10-08-2013

We present herewith the laboratory test results of one (1) soil and two (2) RCA samples received on September 19, 2013. The samples were collected by a representative of the Client on September 19, 2013. A copy of the sample chain-of-custody form is attached.

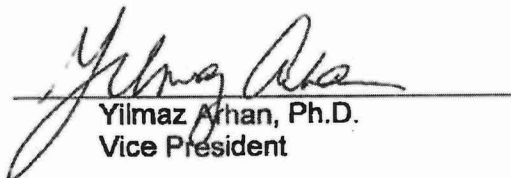
As requested, the samples were analyzed for Polycyclic Aromatic Hydrocarbons (PAHs), PCBs, and Extractable Petroleum Hydrocarbons (EPH). The analyses were performed by Integrated Analytical Laboratories, LLC (IAL) (NJDEP Lab ID No. 14751).

A copy of the IAL sample chain-of-custody form and a copy of the preliminary faxed IAL laboratory summary report are attached.

If there are any questions or if we can be of further assistance in this matter please call us.

Very truly yours,

S & S ENVIRONMENTAL SCIENCES, INC.


Yilmaz Arhan, Ph.D.
Vice President

YA/ya

Attachments: (1) Sample Chain-of-Custody Form
(2) IAL Laboratory Summary Report and Sample Chain-of-Custody Form

cc: (1) Client (Attn: Mr. Matthew Vereb)

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT

Client: S & S Environmental

Project: ALCOA - EDGEWATER

Lab Case No.: E13-09402

Lab ID:	09402-001			09402-002		
Client ID:	13-152-1			13-152-2		
Matrix:	Solid			Solid		
Sampled Date	9/19/13			9/19/13		
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL
Semivolatiles - PAH (Units)	(mg/Kg-ppm)			(mg/Kg-ppm)		
Naphthalene	0.821	D	0.059	ND		0.020
2-Methylnaphthalene	0.262	D	0.081	ND		0.028
Acenaphthylene	ND		0.068	ND		0.023
Acenaphthene	1.09	D	0.078	ND		0.027
Fluorene	0.992	D	0.059	ND		0.020
Phenanthrene	8.52	D	0.064	0.152		0.022
Anthracene	2.19	D	0.098	ND		0.033
Fluoranthene	8.44	D	0.059	0.191		0.020
Pyrene	8.39	D	0.072	0.192		0.025
Benzo[a]anthracene	4.19	D	0.094	0.106		0.032
Chrysene	3.76	D	0.066	0.103		0.023
Benzo[b]fluoranthene	2.31	D	0.060	0.051		0.020
Benzo[k]fluoranthene	2.04	D	0.092	0.050		0.031
Benzo[a]pyrene	2.34	D	0.059	0.055		0.020
Indeno[1,2,3-cd]pyrene	1.54	D	0.064	0.042		0.022
Dibenz[a,h]anthracene	0.495	D	0.071	ND		0.024
Benzo[g,h,i]perylene	1.67	D	0.088	0.037		0.030
PCB's (Units)	(mg/Kg-ppm)			(mg/Kg-ppm)		
Aroclor-1016	ND		0.013	ND		0.014
Aroclor-1221	ND		0.013	ND		0.014
Aroclor-1232	ND		0.013	ND		0.014
Aroclor-1242	ND		0.013	ND		0.014
Aroclor-1248	10.7	D	0.067	1.07		0.014
Aroclor-1254	ND		0.013	ND		0.014
Aroclor-1260	ND		0.013	ND		0.014
Aroclor-1262	ND		0.013	ND		0.014
Aroclor-1268	ND		0.013	ND		0.014
PCBs	10.7	D	0.067	1.07		0.014
NJ-EPH-C40 (Units)	(mg/Kg-ppm)			(mg/Kg-ppm)		
C9-C40	285		8.74	59.4		8.74

ND = Analyzed for but Not Detected at the MDL

D = The compound was reported from the Diluted analysis

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT

Client: S & S Environmental

Project: ALCOA - EDGEWATER

Lab Case No.: E13-09402

Lab ID:	09402-003		
Client ID:	13-152-3		
Matrix:	Soil		
Sampled Date	9/19/13		
PARAMETER(Units)	Conc	Q	MDL
Semivolatiles - PAH (Units)	(mg/Kg-ppm)		
Naphthalene	6.44	D	0.426
2-Methylnaphthalene	1.97	D	0.590
Acenaphthylene	ND		0.497
Acenaphthene	8.53	D	0.568
Fluorene	8.02	D	0.426
Phenanthrene	60.1	D	0.469
Anthracene	15.8	D	0.710
Fluoranthene	64.6	D	0.426
Pyrene	62.5	D	0.526
Benzo[a]anthracene	36.2	D	0.682
Chrysene	32.5	D	0.483
Benzo[b]fluoranthene	19.5	D	0.433
Benzo[k]fluoranthene	19.1	D	0.668
Benzo[a]pyrene	21.3	D	0.426
Indeno[1,2,3-cd]pyrene	13.2	D	0.469
Dibenz[a,h]anthracene	4.45	D	0.519
Benzo[g,h,i]perylene	14.1	D	0.639
PCB's (Units)	(mg/Kg-ppm)		
Aroclor-1016	ND		0.015
Aroclor-1221	ND		0.015
Aroclor-1232	ND		0.015
Aroclor-1242	ND		0.015
Aroclor-1248	77.8	D	0.310
Aroclor-1254	ND		0.015
Aroclor-1260	ND		0.015
Aroclor-1262	ND		0.015
Aroclor-1268	ND		0.015
PCBs	77.8	D	0.310
NJ-EPH-Fractionated (Units)	(mg/Kg-ppm)		
C9-C12 Aliphatics	ND		6.32
C12-C16 Aliphatics	13.8		6.32
C16-C21 Aliphatics	36.4		4.21
C21-C40 Aliphatics	188		4.21
Total Aliphatics	238		6.32
C10-C12 Aromatics	5.35	J	4.21
C12-C16 Aromatics	24.9		4.21
C16-C21 Aromatics	373		4.21
C21-C36 Aromatics	561		4.21
Total Aromatics	964	J	4.21
Total NJ-EPH	1200	J	6.32

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the RL and above the MDL

D = The compound was reported from the Diluted analysis